Aluminium powder

Aluminum powder is powdered aluminum. This was originally produced by mechanical means using a stamp mill to create flakes. Subsequently, a process of spraying molten aluminum to create a powder of droplets was developed by E. J. Hall in the 1920s. The resulting powder might then be processed further in a ball mill to flatten it into flakes for use as a coating or pigment. Aluminum powder, if breathed in, is not particularly harmful and will only cause minor irritation.[1] The melting point of aluminum powder is 660 °C.[2]

Aluminum pigment powder

Contents

Usage

See also

References

External links

Usage

- cosmetic colorant
- pyrotechnic
- in paints as metallic silver pigment
- Fingerprint powder[3]
- Rocket and missile fuel
- thermite
- refractory
- production of Autoclave aerated concrete.

Depending on the usage, the powder is either coated or uncoated.

See also

- Metal powder
- Technology portal

References

1. Joseph R. Davies (1993), "Powder Metallurgy Processing", *Aluminum and Aluminum Alloys* (https://books.google.com/books?id=Lskj5k3PSIcC&pg=PA275), ASM International, p. 275, ISBN 9780871704962

2. Friedman, Raymond (1998). *Principles of Fire Protection Chemistry and Physics* (https://books.google.com/books?id=JyNcYiY11T8C&pg=PA155&dq=The+melting+point+of+aluminum+powder+is+660%C2%A0%C2%B0C.&hl=en&sa=X&ved=0ahUKEwiz3Zny0fDXAhVN5GMKHawuBjsQ6AEIMjAC#v=onepage&q=The%20melting%20point%20of%20aluminum%20powder%20is%20660%C2%A0%C2%B0C.&f=false). Jones & Bartlett Learning. ISBN 9780877654407.
3. Champod, Christophe; Lennard, Chris J.; Margot, Pierre; Stoilovic, Milutin (2004-04-27). *Fingerprints and Other Ridge Skin Impressions* (https://books.google.com/books?id=n9out--0RRkC&pg=PA137&dq=Fingerprint+powder+uses+aluminum+powder&hl=en&sa=X&ved=0ahUKEwjU4frB0fDXAhUV8GMKHWrICMYQ6AEIKDAA#v=onepage&q=Fingerprint%20powder%20uses%20aluminum%20powder&f=false). CRC Press. ISBN 9780203485040.

External links

- https://www.cdc.gov/niosh/ipcsneng/neng0988.html

Retrieved from "https://en.wikipedia.org/w/index.php?title=Aluminium_powder&oldid=922761709"

This page was last edited on 24 October 2019, at 04:14 (UTC).

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.